

to said first platform part (180) for rotationally driving and sensing rotations, respectively, of said first platform part about said first (z-) axis (170).

REMARKS

Regarding the final action of October 23, 2002, the rejected independent claim 21 has been cancelled and its limitations inserted in the merely objected-to dependent claims 25, 28 and 29.

The dependency of claims 22, 23, and 26 have been changed from claim 21 to claim 28. An error in claims 26 and 27 has been corrected wherein the original claim used the word "viewpoints" where --viewports-- was the correct phraseology as may be found in the specification at page 18, line 11. It is noted that on page 4 of the Amendment C filed August 2, 2002, it was noted that the specification had been amended at page 18 to provide explicit support for the claim language first, second and third platform parts (180, 185, 198) and that this language is consistent with original claim 5 ("display platform"). For some reason, this was inadvertently omitted from Amendment C and is included herewith for the same reason.

The objections and rejections of the Official Action of October 23, 2002, having been obviated by amendment are shown to be inapplicable, withdrawal thereof is requested and passage of claims 1-20 and 22-31 to issue is solicited.

Respectfully submitted,



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Version with Markings to Show Changes Made

IN THE SPECIFICATION:

The paragraph beginning at page 18, line 3 and ending at page 19, line 6 has been amended as follows:

--It should also be realized that the selectable mode (active/passive) display does not have to include a detachable helmet mounted display for use when the active mode is selected. For instance, Fig. 6 shows a selectable mode (active/passive) device 163 wherein a display 164 is attached to a shaft 166 that is rotatable 168 about a vertical z-axis 170 in both modes. The user places his hands on hand grips 172, 174 and places his eyes on display viewports 176, 178. The shaft 166 is rotatably mounted in a first platform part, e.g., a disc 180 and is driven in the passive mode by a yaw motor 182 that is fixed to the disc 180. In the active mode, rotations about the z-axis are measured by a yaw sensor 184. The disc 180 is rotatably mounted within a second platform part, e.g., an inner annulus 185 on a pair of pins 186, 188 in the inner annulus for rotating the about an x-axis 190. One end of the pin 186 is fixed in the disc 180 while the other end is journaled in a bearing for being rotatably driven by pitch motor 192 fixed to or in the inner annulus. The pitch motor 192 drives one of the pins 186 as a drive shaft about the x-axis to pitch disc 180 and the display 164 forward or backward in the passive mode. A pitch sensor 194 mounted in or on the inner annulus 185 senses rotation of the disc 180 about the x-axis in the active mode while the pitch motor is inactive. One pin 196 is shown of a pair of pins fixed in the inner annulus but journaled on bearings in a third platform part, e.g., an outer annulus 198 for rotating the inner annulus about a y-axis 200. A roll motor 202 is fixed on or in the outer annulus 198 and drives the pin 196 as a drive shaft to rotate the inner annulus about the y-axis in the passive mode. A roll sensor 204 is fixed in or on the outer annulus and senses rotation of the inner annulus about the y-axis in the active mode while the roll motor is inactive. It should be realized that the sensors can be used in the passive mode as well to provide feedback signals for controlling the motors in closed loop fashion. If not used in this way, the attitude of the display in passive mode can be controlled in open loop fashion.--

IN THE CLAIMS:

22. (Once Amended) The device of claim [21] 28, further comprising:
a third platform part (198) within which said second platform part is rotatably mounted for rotation about a third (y-) axis (200).

23. (Once Amended) The device of claim [21] 28, wherein said first and second axes are perpendicular.

24. (Once Amended) The device of claim [22] 29, wherein said first, second, and third axes are mutually perpendicular.

25. (Once Amended) [The device of claim 21, further comprising hand grips (172, 174) for use by a user in placing hands thereon] A display device (163), comprising:

a display (164) mounted on a first platform part (180) rotatable (168) about a first (z-) axis (170), said display having hand grips (172, 174) for use by a user in placing hands thereon; and

a second platform part (185) within which said first platform part is rotatably mounted for rotation about a second (x-) axis (190).

26. (Once Amended) The device of claim [21] 28, further comprising display [viewpoints] viewports (176, 178) on said display for use by a user in placing eyes thereon.

27. (Once Amended) The device of claim 25, further comprising display [viewpoints] viewports (176, 178) on said display for use by a user in placing eyes thereon.

28. (Once Amended) [The device of claim 21, further comprising] A display device (163), comprising:

a display (164) mounted on a first platform part (180) rotatable (168) about a first (z-) axis (170);

a second platform part (185) within which said first platform part is rotatably mounted for rotation about a second (x-) axis (190); and

at least one of a first motor (182) and first sensor (184) fixed in or to said first platform part (180) for rotationally driving and sensing rotations, respectively, of said first platform part about said first (z-) axis (170).

29. (Once Amended) [The device of claim 22, further comprising] A display device (163), comprising:

a display (164) mounted on a first platform part (180) rotatable (168) about a first (z-) axis (170);

a second platform part (185) within which said first platform part is

rotatably mounted for rotation about a second (x-) axis (190);

a third platform part (198) within which said second platform part is
rotatably mounted for rotation about a third (y-) axis (200); and

at least one of a first motor (182) and first sensor (184) fixed in or
to said first platform part (180) for rotationally driving and sensing
rotations, respectively, of said first platform part about said first (z-)
axis (170).